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DIALOG(R)File 352: Derwent WPI

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WPI Acc no: 1982-53401E/198226

Liquid crystal display - includes insulating film of silica, phospho-silicate glass or silicon nitride, and aluminium (alloy) gate electrode and wiring

Patent Assignee: SUWA SEIKOSHA KK (SUWA)

Patent Family (1 patents, 1 & countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 57081288	A	19820521	JP 1980157195	A	19801107	198226	B

Patent Details					
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
JP 57081288	A	JA	10		

Alerting Abstract JP A

In a liq. crystal display in which a semiconductor wafer has matrixed picture elements consisting of transistor, capacitor and liq. crystal driving electrode is used as one wafer constituting a liq. crystal display cell- The picture element circuits are chosen for displaying by external signals, an insulating film of SiO₂, phosphono-silicate glass(PSG), or Si₃N₄ having an undulatory surface present on an unevenly surfaced thin metal layer of Al or its alloy serving partly as the gate electrode of transistor and also partly as a wiring layer connecting the source diffusion layers of transistors.

A metal thin layer of Al (alloy), Ag (alloy), Au (alloy) or Ni (alloy) serves as a liq. crystal driving electrode is present in a vol. of 50% or more on the insulating film in the semi-conductor wafer. The liq. crystal used is a guest-host type.

The liq. crystal display can be effectively driven at low voltages and has excellent displaying performance either indoors or outdoors. The display can be made into a thin and small-size unit.

Title Terms /Index Terms/Additional Words: LIQUID; CRYSTAL; DISPLAY;
INSULATE; FILM; SILICA; PHOSPHO; SILICATE; GLASS; SILICON; NITRIDE;
ALUMINIUM; ALLOY; GATE; ELECTRODE; WIRE; ALLOY

Class Codes

International Patent Classification					
IPC	Class Level	Scope	Position	Status	Version Date
G02F-001/13; G09F-009/00			Secondary		"Version 7"

File Segment: CPI; EngPI

DWPI Class: L03; P81; P85

Manual Codes (CPI/A-N): L03-G05